## In the specification:

[0001] This application for a utility patent is a continuation in part of a previously filed patent PCT/US98/20750, now U.S. patent application Ser. No. 09/308,392 U.S. Patent Application Serial No. 09/308,392, filed May 11, 1999, now U.S. Patent No. 6,268,161, which is a 371 of PCT/US98/20750, filed Sept. 30, 1998, and claims the benefit of U.S. Provisional Patent Application No. 60/194,042, filed Apr. 3, 2000.

## In the Claims:

- 1. (Previously Twice Amended) A polymer matrix incorporating catalase coimmobilized with an analytic enzyme which generates hydrogen peroxide, wherein the concentration of the catalase in <u>a</u> pregel solution which gels to form the polymer matrix ranges from about 100 units/mL to about 1000 units/mL.
  - 2. (Original) The polymer matrix of claim 1, which is pH-sensitive.
- 3. (Previously Amended) The polymer matrix of claim 1, which consists of between about 0.5 mol % and about 6 mol % cross-linking monomers.
- 4. (Original) The polymer matrix of claim 1, which when hydrated has a thickness ranging from about 0.1 mm to about 3.0 mm.
- 5. (Original) The polymer matrix of claim 1, wherein the analytic enzyme is glucose oxidase.
- 6. (Original) The polymer matrix of claim 1, wherein the matrix is composed of hydroxypropyl methacrylate, N,N-dimethylaminoethyl methacrylate, and tetraethyleneneglycol dimethacrylate.
  - 7. (Previously Cancelled)
  - 8. (Previously Cancelled)
  - 9. (Previously Cancelled)
  - 10. (Previously Cancelled)

- 11. (Previously Cancelled)
- 12. (Previously Cancelled)
- 13. (Previously Cancelled)
- 14. (Previously Cancelled)
- 15. (Currently Three Times Amended) A method of making a polymer matrix containing catalase co-immoblized with an analytic enzyme which generates hydrogen peroxide for use in a biosensor or analyte-responsive drug delivery device containing an analytic enzyme that generates hydrogen peroxide, comprising the steps of:

making a pregel solution with containing an added analytic enzyeme enzyme which generates hydrogen peroxide and catalase where the catalase is added at a concentration ranging from about 100 units of catalase/mL pregel solution to about 1000 units catalase/mL pregel solution; and

polymerizing the pregel solution to form a polymer matrix and co-immobilize the analytic enzyme with the catalase in the polymer matrix.

- 16. (Previously Amended) The method of claim 15, wherein the polymer matrix has between about 0.5 mol % and about 6 mol % cross-linking monomers.
- 17. (Original) The method of claim 16, wherein the polymer matrix is formed to have a thickness when hydrated of between about 0.1 mm and about 3.0 mm.
  - 18. (Original) The method of claim 16, wherein the analytic enzyme is glucose oxidase.
  - 19. (Previously Cancelled)
  - 20. (Previously Cancelled)
- 21. (Previously Added) The polymer matrix of Claim 1 in combination with a biosensor in which the polymer matrix is contained, the biosensor including means to monitor and detect changes in the polymer matrix.
- 22. (Previously Added) The polymer matrix-biosensor combination of Claim 21, wherein the biosensor is an analyte-responsive drug delivery device, wherein the polymer matrix changes in

response to an analyte condition, and wherein the changes in the polymer matrix control the drug delivery from the device.